

WASHTECH

PROFESSIONAL WASH SYSTEMS

PW1 OPERATOR MANUAL



Distributed in
Australia by

740 Springvale Road, Mulgrave 3170, Victoria, Tel 03 9518 3888 Fax 03 9518 3818

MOFFAT

Service 1 800 622 216

Parts 1 800 337 963

WASHTECH PW1

INSTALLATION

Installation personnel must be suitably qualified and ensure compliance with all codes and standards. Install machine on sound self-draining floor and use adjustable feet to level machine.

Minimum clearance to each side of machine = 50mm
Bench work detail drawing available on request

Allow room for detergent to one side of machine or in adjacent cupboard. 20 litre containers require 450H x 250W x 350D but smaller containers are available from many suppliers.

A. WATER SUPPLY

- Temperature - $65 \pm 5^{\circ}\text{C}$
- Pressure - 200-400kPa = 30-60Psi
- Flow rate minimum - 20 litres per minute
- Consumption - 3.5 litres per cycle approx.
- Connection - 15mm (1/2" BSP Male) FLUSH SUPPLY LINE before connection (point A on drawing)

Line strainer fitted. Do not use small diameter plastic supply lines. Pressure limiter required over 400kPa.
Booster pump available option for low pressure. In hard water areas water softening is recommended particularly with glasswashers.

B. WASTE

40mm - refer point B on drawing. Direct waste pipe behind machine.

C. POWER

Must be 5 wire 3 phase Neutral + Earth. 400/415V 25A/Ph 50Hz.
Permanent wiring required via wall switch to point C on drawing.

COMMISSIONING PROCEDURES:

Connect all services as above. Ensure that all internal machine components such as filters and drain upstand are in place. Turn on water and switch on power. Close machine door and switch machine on by selecting any cycle (1, 2 or 3). When machine stops filling, switch off machine at wall and remove front panel. Switch commissioning switch by breaking label over same. Turn power on at wall. Check rotation of wash pump and alter supply phase if needed to achieve correct rotation. Turn off the power and close the front panel. Drain machine by removing upstand. Machine is now ready for use - refer operating instructions.

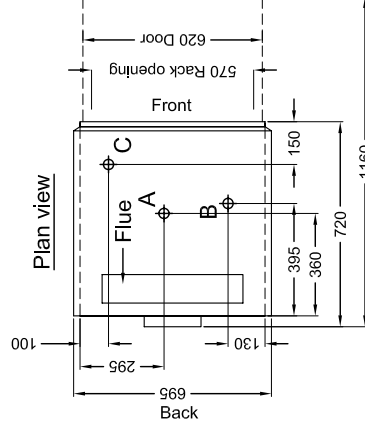
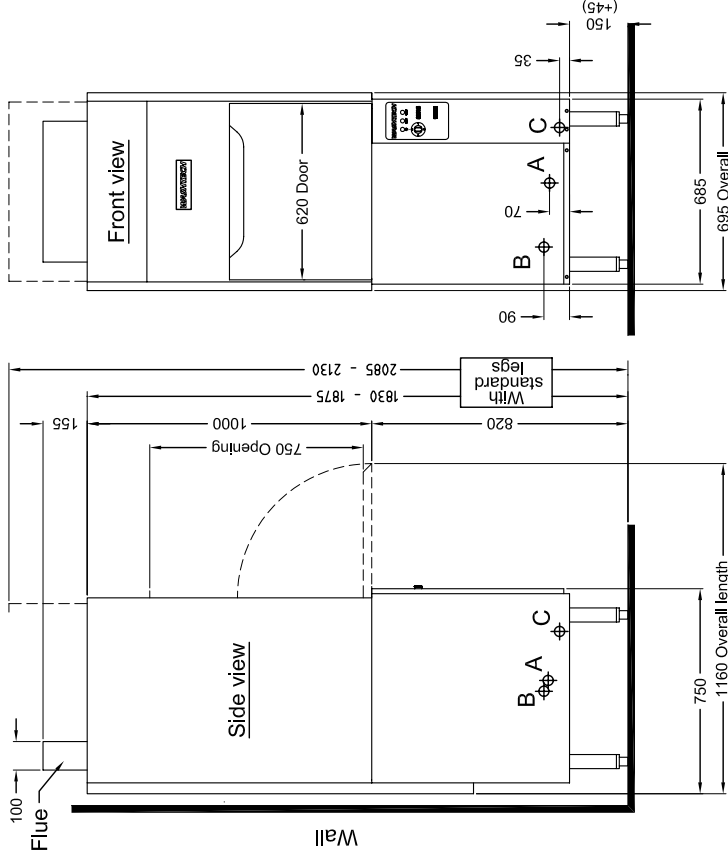
PERISTALTIC DETERGENT PUMP

Insert pump inlet hose into the detergent container. Close machine door and switch machine on. Allow wash tank to fill up then press detergent pump prime switch to prime inlet and outlet hoses. Stop priming when detergent reaches machine. Machine will not fill unless ready light is on and door is shut. Pump doses automatically while filling. Pump operates during the wash cycle and is set to run for approximately 20 seconds.

Use yellow adjusting tool, supplied with instructions, to adjust cam 3 to vary this time. Increase cam gap (away from 0 mark) to increase pumping time.

NOTE:

1. Due to constant product development, dimensions and specifications are subject to alteration without notice.



All dimensions in millimetres



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Description:	INSTALLATION DIAGRAM	CHECKED BY	ISSUE NO.	Rev.	Issue Date:	Drawing No.
PWT			1	E	30-03-05	POW001

DO NOT SCALE - IF IN DOUBT ASK DWG SIZE A3 (390x265)

SPECIFICATION SUBJECT TO CHANGE WITHOUT NOTICE.



PROFESSIONAL WASH SYSTEMS

Safe Installation and Use of Wash Equipment

As with all electrical and mechanical equipment dishwashing equipment can be hazardous if installed or operated incorrectly.

Installation

- ✓ Use qualified, skilled personnel
- ✓ Follow installation instructions
- ✓ Connect to correct voltage and supply current
- ✓ Provide fully accessible Electrical Isolation Switch

Training and Supervision

- ✓ Read and Understand the Operating instructions
- ✓ Train all staff.
- ✓ This appliance is not intended for use by young children.
- ✓ Young Children should be supervised to ensure they do not play with the appliance.
- ✓ This appliance is not intended for use by infirm persons without supervision

Hot Surfaces

- ✓ Be aware some surfaces can be hot.

Chemicals

- ✓ Commercial dishwashing detergents are hazardous
- ✓ Read and follow the safety information found on the labels of detergent containers and Material Safety Data Sheets
- ✓ Handle with care
- ✓ Use protective eyewear and clothing if decanting containers

Hot Water

- ✓ Door safety switches are designed for emergency use only.
- ✓ **WAIT** for the green cycle light to go out before opening the door.
- ✓ Wash water is 60°C and contains caustic detergent so **DO NOT** put hands in wash water.

Cleaning

- ✓ **DO NOT** hose down the machine or splash water over the exterior.
- ✓ Watch for broken glass etc when cleaning the inside of the machine especially with glasswashers..

For further information on any of the above contact



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WASHTECH PW 1

OPERATING INSTRUCTIONS

START UP

Fit drain upstand, wash pump inlet filter and scrap trays.
Close door. Turn wall switch ON and select any cycle (1, 2 or 3).
RED light comes on.
When rinse tank has heated (10 minutes), AMBER light comes on.
Machine will fill automatically and stop.
When machine is full and up to required temperature, AMBER light comes on.

OPERATION

Select required cycle (1 = 2 min, 2 = 4 min, 3 = 6 min)
Press START button - GREEN light comes on and machine operates.
When cycle is completed, GREEN light goes out.
Note: Machine will not operate unless AMBER light is ON.

SHUT DOWN - IMPORTANT - EVERY NIGHT

Turn machine and wall switches off.
Remove drain upstand to drain wash tank.
Remove filter and rinse clean.
Replace drain upstand, filter and scrap trays.

We recommend regular removal and flushing of wash and rinse arms.
To remove rinse arm assembly, undo thumbscrew. (DO NOT remove retainer plate).
To remove wash arms, undo locknut.
Flush arms with water, using a toothpick to clear jets if necessary.

Use of correct type and quantities of detergent is essential to the effective operation of this machine. A low foam specialty product is recommended.

For information on recommended detergent suppliers or local service agents, contact

REV 1D
3/5/2000



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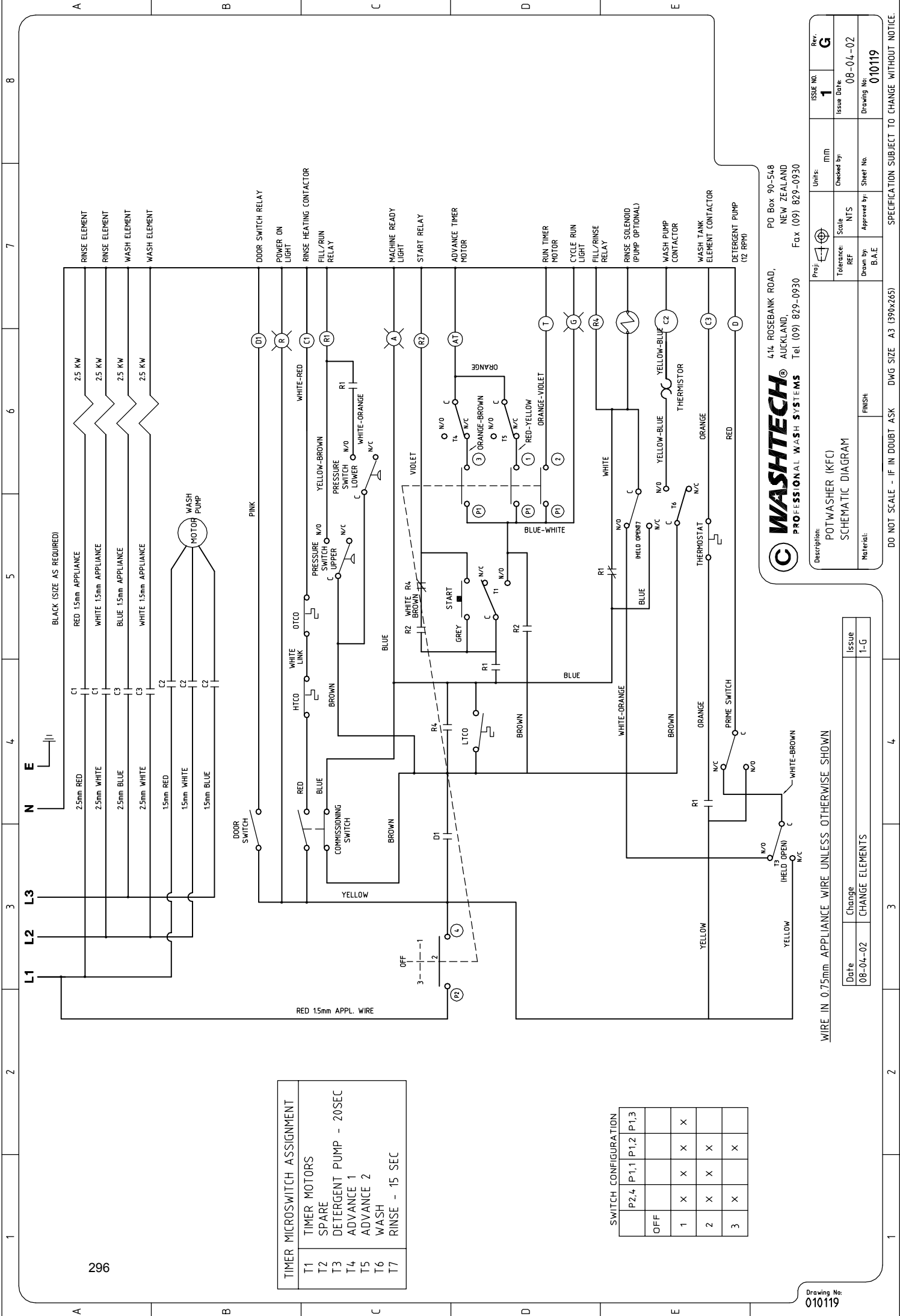
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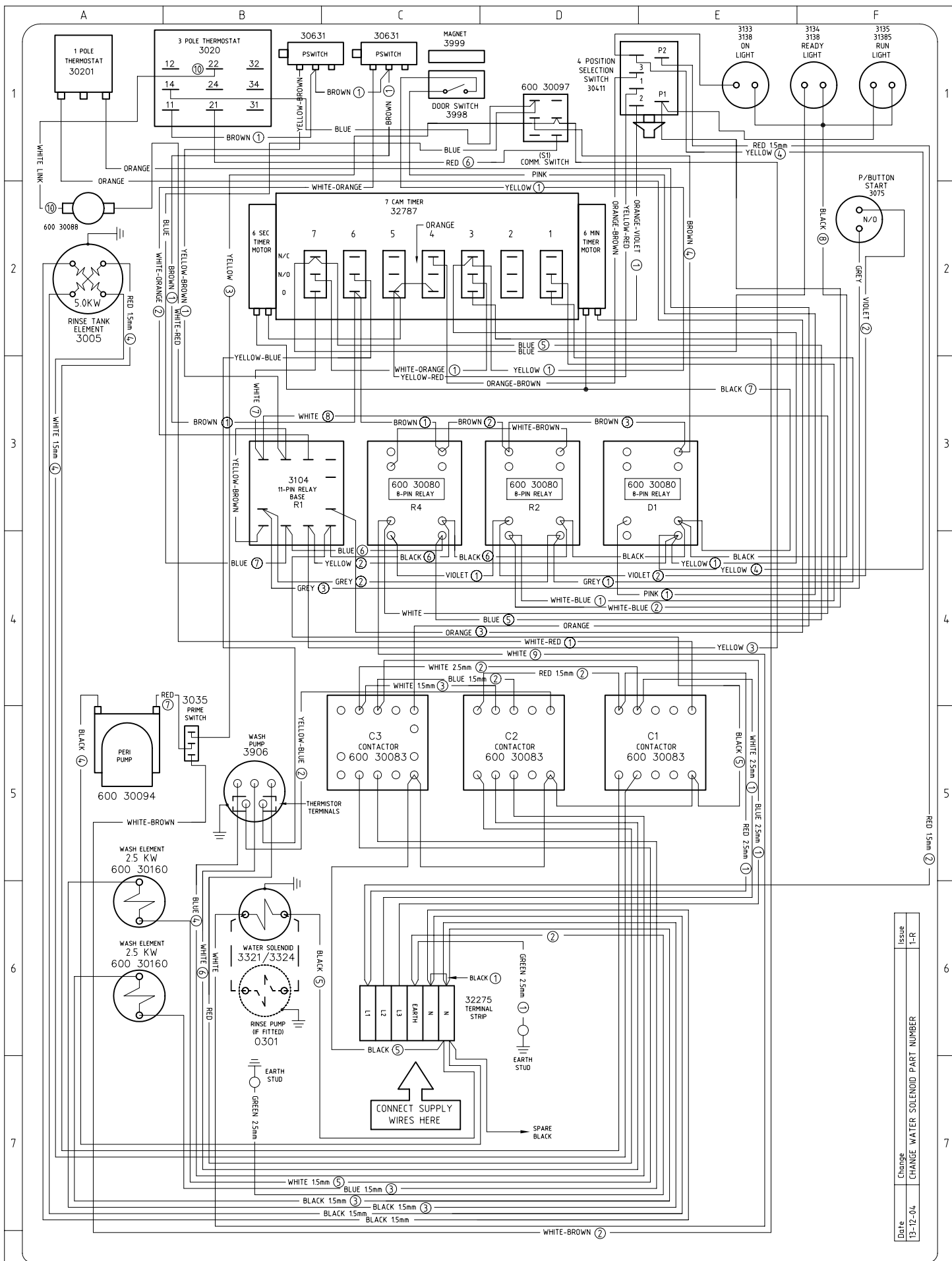
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POTWASHER TROUBLE SHOOTING CHART

FAULT	CAUSE	CHECK
Red power light will not come on	No power to machine	Switch on wall is on / power supply at board.
Orange light will not come on	Machine not at temperature	Rinse gauge / machine heating function / door is closed
Cycle will not come on	Machine not ready to cycle	Check that orange and red lights are on / door is closed
Machine continues to fill with water		Water supply / door is shut / water inlet solenoid valve via serviceman
Machine continues to fill		Drain is in place / pressure bell
Wash arms are clogged with food soil	Poor pre-rinsing Scrap trays not functional	Operator procedure Scrap tray fit / pump filter.
Results are streaked or dirty	Poor rinsing	Operator is not opening the door before the green light goes out Rinse jets are clean and rinse arms are rotating Racking of wares. Detergent Container
Machine continues to cycle	Start button jammed	Start button
Machine will not drain after drain upstand is removed.	Plumbing is blocked Drain pump (if fitted) is not working.	Dish cloth or foreign matter are not covering drain seat Call in serviceman to check plumbing Switch on drain pump





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Drawing No
010216

ISSUE NO.	Rev.
1	R
Issue Date:	13-12-04
Drawn by:	297
D.A.E.	

Description:
POTWASHER WIRING DIAGRAM (MODEL 3)

Scale NTS	Units: mm	Proj: REF	Tolerance: REF	Checked by:	Approved by:
FINISH:					
Material:					Sheet No.

Drawing No:

010216

ITEM	CODE	DESCRIPTION	QTY
1	61942	HOSE WASH INLET 60mmx75mm	1
2	ASS44	HOSECLIP ASS44	2
3	1896	GASKET FOR 40mm DRAIN WASTE	1
4	3906	PUMP WASH AL 2HP 3PH	1
5	61941	HOSE WASH PUMP 50mmx115mm	1
6	6110	SINK WASTE 40mm C/W BACKNUT	1
7	815 10023	ASSY POTWASHER DRAIN UPSTAND	1
8	ASS36	HOSECLIP ASS36	2
9	815 10007	ASSY WASH ARM	2
10	400 30014	SPINDLE AL WASH SPINDLE	2
11	280409C	LOCKNUT SS M18	2
12	600 80030	MS HX SS 304 M8x20	4
13	600 80022	WASHER FL SS 304 M8 x16 x 1.25	4
14	600 80023	NUT SS 304 HEX M8	4
15	0444	KIT DETERGENT PUMP SEKO	1
16	400 90010	GASKET 10x19x8 CAF	2
17	600 80009	NUT SS304 HEX M10	2
18	30675	HOSE M2/AL PRESSURE SWITCH	2
19	8800	MS PAN POZI ZP M4 X 6	2
20	30201	THERMOSTAT 1 POLE	1
21	3032	GLAND NUT	1
22	3033	GASKET GLAND	1
23	3031	GLAND BULKHEAD	1
24	130605C	SWITCH PRESSURE 50-30 1 LEVEL	2
25	600 30160	ELEMENT WASH 25KW BEND	2
26	8568	WASHER SPRING SS 304 M8	4
27	815 10005	PRESSURE BELL SS POTWASHER	1
28	C161301	AIR TRAP F2 C34-F45	1
29	2035	ASSY SL/POW DET.GOOSENECK	1
30	1894	GASKET-BULKHEAD FITTING	1
31	1955	NUT BULKHEAD 1/2	1

WASH PIPE ASSY.

WASH TANK

THERMOSTAT PROBE

PRESSURE SWITCH BRACKET

PRESSURE SWITCH BRACKET

ELEMENT LOCKNUTS
ELEMENT GASKETS

Date	Change	Issue
08-04-02	CHANGE ELEMENTS	1-B

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APPROVED
Alexander Jouk

Drawing No:
PW1 0001

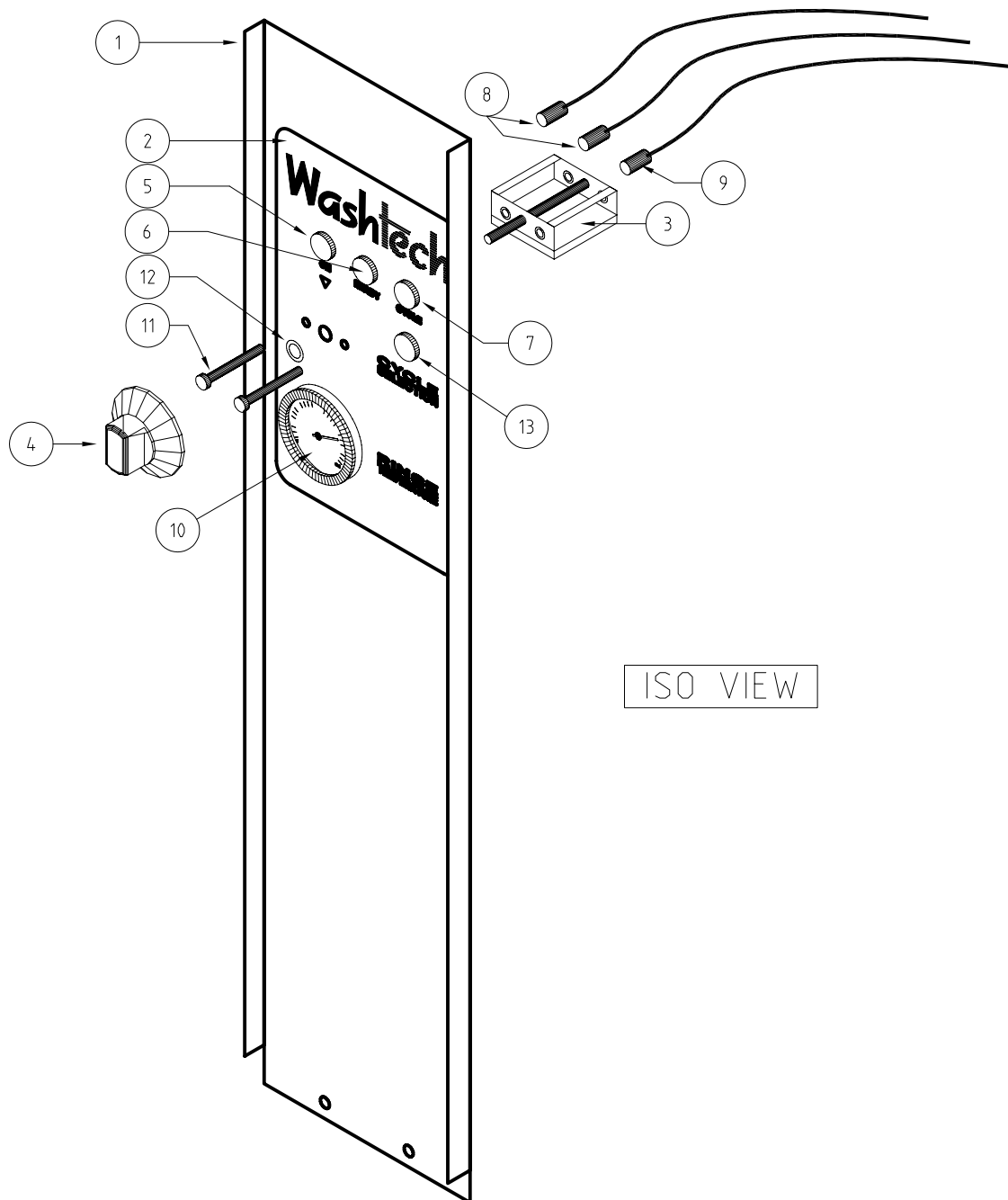
ISSUE NO.	Rev.
1	B
Issue Date:	08-04-02
Drawn by:	M.K.H.

Description:
WASH SYSTEM PW1

Scale NTS	Units: mm	Proj. Tolerance: ±0.5 ±10°	Checked by:
FINISH:			
Material:			
			Sheet No.

Drawing No:
PW1 0001

DO NOT SCALE - IF IN DOUBT ASK DWG SIZE A3 (390x265)



ITEM	CODE	DESCRIPTION	QTY
1	815 10033	PW1 CONTROL PANEL SUB ASSEMBLY	1
2	19880	LABEL CONTROL 130x220 W/TEC M2	1
3	30411	SWITCH 4 POSITION	1
4	30415	KNOB 4 POSITION 254.058 EGO	1
5	3133	LENS NEON (RED) 12mm DIA.	1
6	3134	LENS NEON (AMBER) 12mm DIA.	1
7	3135	LENS NEON (GREEN) 12mm DIA.	1
8	3138	NEON ASSY. (CLEAR) L=400mm	2
9	31385	NEON ASSY. (GREEN) L=400mm	1
10	35021	TEMP GAUGE T52PS 1.0 CAP BONW	1
11	3028	SCREWS 520522 EGO	2
12	8504	WASHER FL SS 1/4"	1
13	3075	GREEN PUSH BUTTON START SWITCH	1

APPROVED

Ian Mcleod



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815 10041

ISSUE NO. 1	Rev. A	Description: ASSY. PW1 CONTROL PANEL	Scale REF	Units: mm	Proj. 	Tolerance: REF	Checked by:	Approved by:
Issue Date: 26-11-04			Material: AS SPECIFIED				Drawing No: 815 10041	
FINISH:								